NEWS PHONE

NEWS WWW

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=> file reg

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

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TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

Uploading C:\Documents and Settings\mgraffeo\My Documents\Critical Data\10517801\compound.str

chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14

chain bonds :

1-2 2-3 2-12 3-4 4-5 5-6 6-7 7-8 8-9 9-10 9-14 10-11 10-13

exact/norm bonds :

2-3 2-12 3-4 5-6 6-7 9-14

exact bonds :

1-2 4-5 7-8 8-9 9-10

normalized bonds :

10-11 10-13

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS

Stereo Bonds:

14-9 (Single Hash).

Stereo Chiral Centers:

(Parity=Don't Care)

Stereo RSS Sets:

Type=Relative (Default). 1 Nodes= 9

STRUCTURE UPLOADED

=> s l1 sss full

FULL SEARCH INITIATED 13:20:10 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 131 TO ITERATE

100.0% PROCESSED 131 ITERATIONS 16 ANSWERS

SEARCH TIME: 00.00.01

16 SEA SSS FUL L1

=> s l1 exa full

FULL SEARCH INITIATED 13:20:20 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 8 TO ITERATE

100.0% PROCESSED 8 ITERATIONS 2 ANSWERS

SEARCH TIME: 00.00.01

2 SEA EXA FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 215.58 215.79

FILE 'CAPLUS' ENTERED AT 13:20:28 ON 22 AUG 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 22 Aug 2005 VOL 143 ISS 9 FILE LAST UPDATED: 21 Aug 2005 (20050821/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s 12 or 13
           16 L2
            13 L3
L4
            16 L2 OR L3
=> s l4 (L) antioxidant
         99349 ANTIOXIDANT
L5
             0 L4 (L) ANTIOXIDANT
=> s 14 and chelat?
        126712 CHELAT?
L6
            1 L4 AND CHELAT?
=> d bib abs hitstr
     ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
L6
ΑN
     2004:2680 CAPLUS
DN
     140:65201
     (2S) -2-Amino-4-{[2-(ethanimidoylamino)ethyl]thio}butanoic acid nitric
ΤI
     oxide synthase inhibitor in stabilized pharmaceutical dosage forms
     Broughton, Stuart James; Gharu, Rajinder Kumar; Leow, Mark Yuon Tuck;
IN
     Neale, Philip John
     SB Pharmco Puerto Rico Inc., P. R.
PA
     PCT Int. Appl., 16 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
LA
FAN.CNT 1
     PATENT NO.
                        KIND
                              DATE
                                          APPLICATION NO.
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                                           ______
                                                                  ------
                                                                 20030619
                               20031231
                                          WO 2003-EP6465
PΙ
     WO 2004000296
                        A1
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             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
             PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR,
            TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     EP 1513511
                         A1
                               20050316 EP 2003-740281
                                                                 20030619
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
PRAI GB 2002-14147
                               20020619
                         Α
     WO 2003-EP6465
                         W
                               20030619
     Pharmaceutical compns. comprising (2S)-MeC(:NH)NHCH2CH2SCH2CH2CH(NH2)CO2H
AB
     (I) a pharmaceutically acceptable bulking agent and one or more
     antioxidants or chelating agents are described. A direct
```

compression formula for tablets contained I, EDTA, Avical PH101, silica,

and Mg stearate.

Absolute stereochemistry.

Absolute stereochemistry.

CM 2

CRN 7664-38-2 CMF H3 O4 P

RN 638198-40-0 CAPLUS
CN L-Homocysteine, S-[2-[(1-iminoethyl)amino]ethyl]-, monohydrate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● н20

638198-41-1 CAPLUS RN

L-Homocysteine, S-[2-[(1-iminoethyl)amino]ethyl]-, trihydrate (9CI) (CA CN INDEX NAME)

Absolute stereochemistry.

●3 H<sub>2</sub>O

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s 14 (L) (edta or "ethylenediamintetraacetic acid" or malic or ascorbic) 82261 EDTA

12 "ETHYLENEDIAMINTETRAACETIC"

4020182 "ACID"

11 "ETHYLENEDIAMINTETRAACETIC ACID"

("ETHYLENEDIAMINTETRAACETIC"(W) "ACID")

29892 MALIC

78739 ASCORBIC

O L4 (L) (EDTA OR "ETHYLENEDIAMINTETRAACETIC ACID" OR MALIC OR

ASCORBIC)

---Logging off of STN---

Executing the logoff script...

=> LOG Y

L7

=>

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 20.42 236.21

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL CA SUBSCRIBER PRICE ENTRY SESSION -0.73 -0.73

STN INTERNATIONAL LOGOFF AT 13:23:20 ON 22 AUG 2005

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PASSWORD:

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                Web Page URLs for STN Seminar Schedule - N. America
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                 "Ask CAS" for self-help around the clock
NEWS
     2
NEWS 3
        FEB 28
                PATDPAFULL - New display fields provide for legal status
                data from INPADOC
                BABS - Current-awareness alerts (SDIs) available
NEWS 4 FEB 28
                GBFULL: New full-text patent database on STN
NEWS 5 MAR 02
                REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS 6 MAR 03
NEWS 7 MAR 03
                MEDLINE file segment of TOXCENTER reloaded
NEWS 8 MAR 22
                KOREAPAT now updated monthly; patent information enhanced
                Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS 9 MAR 22
NEWS 10 MAR 22
                PATDPASPC - New patent database available
NEWS 11 MAR 22
                REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS 12 APR 04
                EPFULL enhanced with additional patent information and new
                 fields
NEWS 13 APR 04
                EMBASE - Database reloaded and enhanced
                New CAS Information Use Policies available online
NEWS 14 APR 18
NEWS 15 APR 25
                Patent searching, including current-awareness alerts (SDIs),
                 based on application date in CA/CAplus and USPATFULL/USPAT2
                 may be affected by a change in filing date for U.S.
                 applications.
                 Improved searching of U.S. Patent Classifications for
NEWS
     16 APR 28
                 U.S. patent records in CA/CAplus
     17 MAY 23
                GBFULL enhanced with patent drawing images
NEWS
                REGISTRY has been enhanced with source information from
NEWS 18 MAY 23
                 CHEMCATS
NEWS 19 JUN 06
                The Analysis Edition of STN Express with Discover!
                 (Version 8.0 for Windows) now available
NEWS 20 JUN 13
                RUSSIAPAT: New full-text patent database on STN
NEWS
     21 JUN 13
                FRFULL enhanced with patent drawing images
NEWS 22 JUN 27
                MARPAT displays enhanced with expanded G-group definitions
                 and text labels
     23 JUL 01
                MEDICONF removed from STN
NEWS
     24 JUL 07
                STN Patent Forums to be held in July 2005
NEWS
     25 JUL 13
                SCISEARCH reloaded
NEWS
NEWS 26 JUL 20
                Powerful new interactive analysis and visualization software,
                 STN AnaVist, now available
NEWS
     27 AUG 11
                Derwent World Patents Index(R) web-based training during
                 August
                STN AnaVist workshops to be held in North America
NEWS
      28 AUG 11
             JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
NEWS EXPRESS
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MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

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=> file reg
COST IN U.S. DOLLARS

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 0.21 0.21

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Uploading C:\Documents and Settings\mgraffeo\My Documents\Critical Data\10517801\compound.str

chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14

chain bonds :

1-2 2-3 2-12 3-4 4-5 5-6 6-7 7-8 8-9 9-10 9-14 10-11 10-13

exact/norm bonds :

2-3 2-12 3-4 5-6 6-7 9-14

exact bonds :

1-2 4-5 7-8 8-9 9-10

normalized bonds :

10-11 10-13

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS

Stereo Bonds:

14-9 (Single Hash).

Stereo Chiral Centers:

9 (Parity=Don't Care)

Stereo RSS Sets:

Type=Relative (Default). 1 Nodes= 9

L1 STRUCTURE UPLOADED

=> s l1 exa full

FULL SEARCH INITIATED 14:57:50 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 8 TO ITERATE

100.0% PROCESSED 8 ITERATIONS

ITERATIONS 2 ANSWERS

SEARCH TIME: 00.00.01

L2 2 SEA EXA FUL L1

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL

ENTRY SESSION

FULL ESTIMATED COST 54.68 54.89

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((2S)-2-Amino-4-{[2-(ethanimidoylamino)ethyl]thio}butanoic acid nitric oxide synthase inhibitor in stabilized pharmaceutical dosage forms) RN 210354-22-6 CAPLUS

Absolute stereochemistry.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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=> s 12 and stability
           13 L2
       623742 STABILITY
1.4
             0 L2 AND STABILITY
=> s 12 and formulation
            13 L2
        126374 FORMULATION
             0 L2 AND FORMULATION
L5
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MISSING OPERATOR 'L2 (ANTIOXIDAN'
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.
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        126712 CHELAT?
             1 L2 AND (ANTIOXIDANT OR CHELAT?)
L6
=> d bib abs
     ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
L6
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AN
     140:65201
DN
     (2S)-2-Amino-4-{[2-(ethanimidoylamino)ethyl]thio}butanoic acid nitric
TI
     oxide synthase inhibitor in stabilized pharmaceutical dosage forms
     Broughton, Stuart James; Gharu, Rajinder Kumar; Leow, Mark Yuon Tuck;
IN
     Neale, Philip John
     SB Pharmco Puerto Rico Inc., P. R.
PA
SO
     PCT Int. Appl., 16 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
                                DATE
                                           APPLICATION NO.
                                                                  DATE
     PATENT NO.
                        KIND
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                                           WO 2003-EP6465
                                                                  20030619
     WO 2004000296
                         A1
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             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

EP 1513511 A1 20050316 EP 2003-740281 20030619 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

PRAI GB 2002-14147 A 20020619 WO 2003-EP6465 W 20030619

AB Pharmaceutical compns. comprising (2S)-MeC(:NH)NHCH2CH2SCH2CH2CH(NH2)CO2H (I) a pharmaceutically acceptable bulking agent and one or more antioxidants or chelating agents are described. A direct compression formula for tablets contained I, EDTA, Avical PH101, silica, and Mg stearate.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s 12

L7 13 L2

=> d 1-13 bib abs

- L7 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN
- AN 2005:465475 CAPLUS
- DN 143:71325
- TI GW274150 and GW273629 are potent and highly selective inhibitors of inducible nitric oxide synthase in vitro and in vivo
- AU Alderton, Wendy K.; Angell, Anthony D. R.; Craig, Caroline; Dawson, John; Garvey, Edward; Moncada, Salvador; Monkhouse, Jayne; Rees, Daryl; Russell, Linda J.; Russell, Rachel J.; Schwartz, Sheila; Waslidge, Neil; Knowles, Richard G.
- CS Medicines Research Centre, Respiratory & Inflammation Centre of Excellence for Drug Discovery, GlaxoSmithKline Research, Stevenage, SG1 2NY, UK
- SO British Journal of Pharmacology (2005), 145(3), 301-312 CODEN: BJPCBM; ISSN: 0007-1188
- PB Nature Publishing Group
- DT Journal
- LA English
- GW274150 ([2-[(1-iminoethyl) amino]ethyl]-L-homocysteine) and GW273629 AB (3-[[2-[(1-iminoethyl)amino]ethyl]sulfonyl]-L-alanine) are potent, time-dependent, highly selective inhibitors of human inducible nitric oxide synthase (iNOS) vs. endothelial NOS (eNOS) (>100-fold) or neuronal NOS (nNOS) (>80-fold). GW274150 and GW273629 are arginine competitive, NADPH-dependent inhibitors of human iNOS with steady state Kd values of <40 and <90 nM, resp. GW274150 and GW273629 inhibited intracellular iNOS in J774 cells in a time-dependent manner, reaching IC50 values of  $0.2\pm0.04$  and  $1.3\pm0.16$   $\mu\text{M}$ , resp. They were also acutely selective in intact rat tissues: GW274150 was >260-fold and 219-fold selective for iNOS against eNOS and nNOS, resp., while GW273629 was >150-fold and 365-fold selective for iNOS against eNOS and nNOS, resp. The pharmacokinetic profile of GW274150 was biphasic in healthy rats and mice with a terminal half-life of .apprx.6 h. That of GW273629 was also biphasic in rats, producing a terminal half-life of .apprx.3 h. however, elimination of GW273629 appeared monophasic and more rapid (.apprx.10 min). Both compds. show a high oral bioavailability (>90%) in rats and mice. GW274150 was effective in inhibiting LPS-induced plasma NOx levels in mice with an ED50 of 3.2±0.7 mg kg-1 after 14 h i.p. and  $3.8\pm1.5$  mg kg-1 after 14 h when administered orally. GW274150 was effective in inhibiting LPS-induced plasma NOx levels in mice with an ED50 of 3.2 $\pm$ 0.7 mg kg-1 after 14 h i.p. and 3.8 $\pm$ 1.5 mg kg-1 after 14 h when administered orally. GW273629 showed shorter-lived effects on plasma NOx and an ED50 of 9±2 mg kg-1 after 2 h when administered i.p. The effects of GW274150 and GW273629 in vivo were consistent with high selectivity for iNOS, as these inhibitors were of low potency against nNOS in the rat cerebellum and did not cause significant effects on blood pressure in instrumented mice.
- RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L7 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN
- AN 2005:48432 CAPLUS
- DN 142:169464
- TI Beneficial effects of GW274150 treatment on the development of experimental colitis induced by dinitrobenzene sulfonic acid
- AU Di Paola, Rosanna; Mazzon, Emanuela; Patel, Nimesh S. A.; Genovese, Tiziana; Muia, Carmelo; Thiemermann, Christoph; De Sarro, Angelina; Cuzzocrea, Salvatore
- CS Department of Clinical and Experimental Medicine and Pharmacology, School of Medicine, Policlinico Universitario, University of Messina Torre Biologica, Messina, 98123, Italy
- SO European Journal of Pharmacology (2005), 507(1-3), 281-289 CODEN: EJPHAZ; ISSN: 0014-2999
- PB Elsevier B.V.
- DT Journal
- LA English
- AB Inflammatory bowel disease is associated with inducible nitric oxide synthase (iNOS) expression, oxidative and nitrosative stress, and leukocyte infiltration in the colon. Here, the authors investigate the effects of the selective iNOS-inhibitor (S)-2-amino-(1-iminoethylamino)-5thiopentanoic acid (GW274150) on the development of exptl. colitis induced by dinitrobenzene sulfonic acid. When compared to dinitrobenzene sulfonic acid-treated mice, GW274150 (5 mg/kg i.p.) -treated mice subjected to dinitrobenzene sulfonic ACID-induced colitis experienced a significantly lower rate of the extent and severity of the histol. signs of colon injury. Dinitrobenzene sulfonic acid-treated mice experienced hemorrhagic diarrhea and weight loss. At 4 days after the administration of dinitrobenzene sulfonic acid, the mucosa of the colon exhibited large areas of necrosis. Immunohistochem. for nitrotyrosine and poly (ADP-ribose) (PAR) showed an intense staining in the inflamed colon. Treatment of dinitrobenzene sulfonic acid-treated mice with GW274150 significantly reduced the degree of hemorrhagic diarrhea and weight loss caused by administration of dinitrobenzene sulfonic acid. GW274150 also caused a substantial reduction of (i) the degree of colon injury, (ii) the rise in myeloperoxidase (MPO) activity (mucosa), (iii) the increase in staining (immunohistochem.) for nitrotyrosine, as well as (iv) PARP activation caused by dinitrobenzene sulfonic acid in the colon. Thus, GW274150 treatment reduced the degree of colitis caused by dinitrobenzene sulfonic acid. The authors propose that selective inhibition of iNOS activity with GW274150 may be useful in the treatment of inflammatory bowel disease.
- RE.CNT 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L7 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN
- AN 2004:346162 CAPLUS
- DN 140:399632
- TI Effects of GW274150, a novel and selective inhibitor of iNOS activity, in acute lung inflammation
- AU Dugo, Laura; Marzocco, Stefania; Mazzon, Emanuela; Di Paola, Rosanna; Genovese, Tiziana; Caputi, Achille P.; Cuzzocrea, Salvatore
- CS Department Clinical and Experimental Medicine and Pharmacology, University of Messina, Messina, 98100, Italy
- SO British Journal of Pharmacology (2004), 141(6), 979-987 CODEN: BJPCBM; ISSN: 0007-1188
- PB Nature Publishing Group
- DT Journal
- LA English
- AB The aim of this study was to investigate the effect of GW274150, a novel, potent and selective inhibitor of inducible nitric oxide synthase (iNOS) activity in a model of lung injury induced by carrageenan administration in the rats. Injection of carrageenan into the pleural cavity of rats elicited an acute inflammatory response characterized by: fluid accumulation in the pleural cavity which contained a large number of

polymorphonuclear cells (PMNs) as well as an infiltration of PMNs in lung tissues and subsequent lipid peroxidn., and increased production of nitrite/nitrate (NOx), tumor necrosis factor  $\alpha$  (TNF- $\alpha$ ) and interleukin-1ß (IL-1ß). All parameters of inflammation were attenuated in a dose-dependent manner by GW274150 (2.5, 5 and 10 mg kg-1 injected i.p. 5 min before carrageenan). Carrageenan induced an upregulation of the intracellular adhesion mols.-1 (ICAM-1), as well as nitrotyrosine and poly (ADP-ribose) (PAR) as determined by immunohistochem. anal. of lung tissues. The degree of staining for the ICAM-1, nitrotyrosine and PAR was reduced by GW274150. These results clearly confirm that NO from iNOS plays a role in the development of the inflammatory response by altering key components of the inflammatory cascade. GW274150 may offer a novel therapeutic approach for the management of various inflammatory diseases where NO and related radicals have been postulated to play a role.

THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 49

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ALL CITATIONS AVAILABLE IN THE RE FORMAT
    ANSWER 4 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN
L7
ΑN
    2004:2680 CAPLUS
DN
    140:65201
     (2S)-2-Amino-4-{[2-(ethanimidoylamino)ethyl]thio}butanoic acid nitric
ΤI
    oxide synthase inhibitor in stabilized pharmaceutical dosage forms
    Broughton, Stuart James; Gharu, Rajinder Kumar; Leow, Mark Yuon Tuck;
IN
    Neale, Philip John
    SB Pharmco Puerto Rico Inc., P. R.
PA
    PCT Int. Appl., 16 pp.
SO
    CODEN: PIXXD2
DT
    Patent
    English
LA
FAN.CNT 1
    PATENT NO.
                      KIND DATE
                                        APPLICATION NO.
                                                               DATE
                       ----
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                                          _____
    WO 2004000296
                              20031231 WO 2003-EP6465
                                                                20030619
PΙ
                        A1
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
            PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR,
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TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
            KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
            FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
            BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                        A1 20050316 EP 2003-740281
                                                                20030619
    EP 1513511
           AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
PRAI GB 2002-14147
                               20020619
                        Α
    WO 2003-EP6465
                         W
                               20030619
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Pharmaceutical compns. comprising (2S)-MeC(:NH)NHCH2CH2SCH2CH2CH(NH2)CO2H AB (I) a pharmaceutically acceptable bulking agent and one or more antioxidants or chelating agents are described. A direct compression formula for tablets contained I, EDTA, Avical PH101, silica, and Mg stearate.

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 2 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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ANSWER 5 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN
1.7
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<sup>2003:947089</sup> CAPLUS AN

DN 140:314741

GW274150 inhibits nitric oxide production by primary cultures of rat TIproximal tubular cells

Chatterjee, Prabal K.; Kvale, Espen O.; Patel, Nimesh S. A.; Thiemermann, ΑU Christoph

Department of Experimental Medicine, Nephrology & Critical Care, William CS

Harvey Research Institute, Queen Mary - University of London, UK SO Medical Science Monitor (2003), 9(10), BR357-BR362 CODEN: MSMOFR; ISSN: 1234-1010 PΒ International Scientific Literature, Inc. DΤ LA English Background: Production of nitric oxide (NO) subsequent to expression of AΒ inducible NO synthase (iNOS) contributes to the development of ischemic renal injury and inflammation. Here the authors investigate the effects of GW274150, a potent, long-acting and highly selective inhibitor of iNOS activity, on NO production by primary cultures of rat proximal tubular cells (PTC). Material/Methods: Pure populations of PTC were isolated from the cortex of kidneys obtained from male Wistar rats using a combination of collagenase digestion, sieving and Percoll centrifugation. Confluent PTC cultures were incubated for 1-24 h with MEM, interferon-y (IFN-γ, 100 iu/mL), bacterial lipopolysaccharide (LPS, 10 μg/mL) in combination after which NO production was determined PTC were also incubated with IFN- $\gamma$  (100 iu/mL) and LPS (10  $\mu$ g/mL) and increasing concns. of GW274150 or L-N6-(1-iminoethyl)lysine (L-NIL) (10 nM - 1 mM) for 24 h after which nitrite levels in the incubation medium were measured. Results: IFN- $\gamma$  and LPS in combination produced a significant, time-dependent increase in NO production Both GW274150 and L-NIL produced a significant and concentration-dependent inhibition of NO production However, GW274150 was markedly more potent (EC50 .apprx. 100 nM) than L-NIL (EC50 .apprx. 10 μM). Conclusions: GW274150 inhibits NO production by primary cultures of PTCs and may therefore be useful in conditions associated with nitrosative stress of the kidney. THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 37 ALL CITATIONS AVAILABLE IN THE RE FORMAT L7 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN 2003:300915 CAPLUS AN 138:302642 DN Inducible nitric oxide synthase inhibitors as vaccine adjuvants TI Thomsen, Lindy Louise IN Glaxo Group Limited, UK PA SO PCT Int. Appl., 33 pp. CODEN: PIXXD2 DТ Patent LA English FAN.CNT 1 APPLICATION NO. KIND DATE DATE \_\_\_\_ \_\_\_\_\_ WO 2003030935 A2 PΙ 20030417 WO 2002-GB4365 20020926 WO 2003030935 A3 20030814 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG CA 2462582 AA 20030417 CA 2002-2462582 20020926 EP 1432440 20040630 EP 2002-762572 20020926 A2 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK JP 2005510478 JP 2003-533966 20020926 T2 20050421 A1 A W US 2005054726 20050310 US 2004-491843 20041011 WO 2002-GB4365 MARPAT 100 20011005 PRAI GB 2001-24022 20020926

MARPAT 138:302642

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- AB The present invention relates to the use of inducible nitric oxide synthase (iNOS) inhibitors as vaccine adjuvants, and in a preferred aspect of the invention they are used for adjuvanting nucleic acid (DNA) vaccines. The iNOS inhibitors preferably provide for an increase in antigen-specific CD4-pos. and/or CD8-pos. T cells. These compds. preferably induce a Th1-biased immune response as measured by increased formation of Th1 cytokines, in particular interferon  $\gamma$ . The present invention further provides pharmaceutical compns. comprising an antigen and the inhibitor.
- L7 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN
- AN 2003:289025 CAPLUS
- DN 139:301665
- TI GW274150, a potent and highly selective inhibitor of iNOS, reduces experimental renal ischemia/reperfusion injury
- AU Chatterjee, Prabal K.; Patel, Nimesh S. A.; Sivarajah, Ahila; Kvale, Espen O.; Dugo, Laura; Cuzzocrea, Salvatore; Brown, Paul A. J.; Stewart, Keith N.; Mota-Filipe, Helder; Britti, Domenico; Yaqoob, Muhammad M.; Thiemermann, Christoph
- CS Department of Experimental Medicine and Nephrology, The William Harvey Research Institute, Queen Mary, University of London, London, UK
- SO Kidney International (2003), 63(3), 853-865 CODEN: KDYIA5; ISSN: 0085-2538
- PB Blackwell Publishing, Inc.
- DT Journal
- LA English
- Generation of nitric oxide (NO) by inducible nitric oxide synthase (iNOS) AΒ may contribute to renal ischemia/reperfusion (I/R) injury. The aim of this study was to investigate the effects of GW274150, a novel, highly selective, potent and long-acting inhibitor of iNOS activity in rat and mouse models of renal I/R. Rats were administered GW274150 (5 mg/kg i.v. bolus administered 30 min prior to I/R) and subjected to bilateral renal ischemia (45 min) followed by reperfusion (6 h). Serum and urinary indicators of renal dysfunction, tubular and reperfusion injury were measured, specifically, serum urea, creatinine, aspartate aminotransferase (AST) and N-acetyl-β-D-glucosaminidase (NAG) enzymuria. In addition, renal sections were used for histol. scoring of renal injury and for immunol. evidence of nitrotyrosine formation and poly [ADP (ADP) - ribose] (PAR). Nitrate levels were measured in rat plasma using the Griess assay. Mice (wild-type, administered 5 mg/kg GW274150, and iNOS-/-) were subjected to bilateral renal ischemia (30 min) followed by reperfusion (24 h) after which renal dysfunction (serum urea, creatinine), renal myeloperoxidase (MPO) activity and malondialdehyde (MDA) levels were measured. GW274150, administered prior to I/R, significantly reduced serum urea, serum creatinine, AST, and NAG indicating reduction of renal dysfunction and injury caused by I/R. GW274150 reduced histol. evidence of tubular injury and markedly reduced immunohistochem. evidence of nitrotyrosine and PAR formation, indicating reduced peroxynitrite formation and poly (ADP-ribose) polymerase (PARP) activation, resp. GW274150 abolished the rise in the plasma levels of nitrate (indicating reduced NO production). GW274150 also reduced the renal dysfunction in wild-type mice to levels similar to that observed in iNOS-/- mice subjected to I/R. Renal MPO activity and MDA levels were significantly reduced in wild-type mice administered GW274150 and iNOS-/- mice subjected to renal I/R, indicating reduced polymorphonuclear leukocyte (PMN) infiltration and lipid peroxidn. These results suggest that (1) an enhanced formation of NO by iNOS contributes to the pathophysiol. of renal I/R injury and (2) GW274150 reduces I/R injury of the kidney. We propose that selective inhibitors of iNOS activity may be useful against renal dysfunction and injury associated with I/R of the kidney.
- RE.CNT 67 THERE ARE 67 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L7 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN AN 2003:51504 CAPLUS

- DN 139:159864
- TI A novel, potent and selective inhibitor of the activity of inducible nitric oxide synthase (GW274150) reduces the organ injury in hemorrhagic shock
- AU McDonald, M. C.; Izumi, M.; Cuzzocrea, S.; Thiemermann, C.
- CS The William Harvey Research Institute, St. Bartholomew's and The Royal London School of Medicine and Dentistry, London, EC1M6BQ, UK
- SO Journal of Physiology and Pharmacology (2002), 53(4, Pt. 1), 555-569 CODEN: JPHPEI; ISSN: 0867-5910
- PB Polish Physiological Society
- DT Journal
- LA English
- AΒ An enhanced formation of nitric oxide (NO) by the inducible NO synthase (iNOS) may contribute to the pathophysiol. of hemorrhagic shock. This study investigates the effect of a novel, potent and selective inhibitor of iNOS activity (GW274150) on the circulatory failure and the organ injury and dysfunction associated with hemorrhagic shock in the anesthetized rat. Hemorrhage (sufficient to lower mean arterial blood pressure to 45 mmHg for 90 min) and subsequent resuscitation with shed blood resulted (within 4 h after resuscitation) in a delayed fall in blood pressure, renal and liver injury and dysfunction as well as the pancreatic injury. Pre-treatment of rats with GW274150 (5 mg/kg at 30 min prior to the onset of hemorrhage) attenuated the renal dysfunction as well as the liver and pancreatic injury caused by hemorrhage and resuscitation. Interestingly, GW274150 did not reduce the delayed fall in blood pressure associated with hemorrhaqic shock. We propose that an enhanced formation of NO from iNOS contributes to the organ injury and dysfunction in hemorrhagic shock, and that highly selective inhibitors of iNOS activity, such as GW274150, may represent a novel therapeutic approach for the therapy of hemorrhagic shock.
- RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L7 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN
- AN 2002:804285 CAPLUS
- DN 138:314136
- TI Beneficial effects of GW274150, a novel, potent and selective inhibitor of iNOS activity, in a rodent model of collagen-induced arthritis
- AU Cuzzocrea, Salvatore; Chatterjee, Prabal K.; Mazzon, Emanuela; McDonald, Michelle C.; Dugo, Laura; Di Paola, Rosanna; Serraino, Ivana; Britti, Domenico; Caputi, Achille P.; Thiemermann, Christoph
- CS School of Medicine, Institute of Pharmacology, University of Messina, Policlinico Universitario, Gazzi, Messina, 98100, Italy
- SO European Journal of Pharmacology (2002), 453(1), 119-129 CODEN: EJPHAZ; ISSN: 0014-2999
- PB Elsevier Science B.V.
- DT Journal
- LA English
- The aim of this study was to investigate the role of inducible nitric AΒ oxide synthase (iNOS) on the modulation of the inflammatory response in mice subjected to collagen-induced arthritis. Collagen-induced arthritis was induced in wild-type mice (iNOS-WT) treated with GW274150, a novel, potent and selective inhibitor of iNOS activity, and in mice lacking the gene for iNOS (iNOS knock-out', iNOS-KO), by an intradermal injection of 100  $\mu l$  of emulsion containing 100  $\mu g$  of bovine type II collagen and complete Freund's adjuvant at the base of the tail. After 21 days, a second injection of type II collagen in complete Freund's adjuvant was administered. iNOS-WT mice developed erosive hind paw arthritis when immunized with type II collagen in complete Freund's adjuvant. Over a 35-day period, macroscopic clin. evidence of collagen-induced arthritis first appeared as periarticular erythema and edema in the hind paws. By day 28, the incidence of collagen-induced arthritis was 100% in type II collagen-challenged iNOS-WT mice and the severity of collagen-induced arthritis progressed with radiog. evaluation revealing resorption of bone. Histopathol. of collagen-induced arthritis mice demonstrated erosion of

the cartilage at the joint margins. iNOS-WT mice treated with GW274150 (5 mg/kg, i.p. daily) starting at the onset of arthritis (day 23), and iNOS-KO mice showed a delay of the development of the clin. signs at days 24-35 and an improvement of the histol. status in the knee and paw. Immunohistochem. anal. for nitrotyrosine and for poly(ADP-ribose) polymerase revealed pos. staining in inflamed joints from type II collagen-treated iNOS-WT mice. The degree of staining for nitrotyrosine and poly(ADP-ribose) polymerase were markedly reduced in tissue sections obtained from type II collagen-treated iNOS-WT mice, who had received GW274150 and from iNOS-KO mice. Furthermore, radiog. signs of protection against bone resorption were present in the joints of iNOS-WT mice treated with GW274150 as well as in the joint from iNOS-KO mice. This study provides the first evidence that GW274150, a novel, potent and selective inhibitor of iNOS activity, attenuates the degree of chronic inflammation and tissue damage associated with collagen-induced arthritis in mice. Furthermore, these results suggest that the induction of iNOS and NO production are essential for the up-regulation of the inflammatory response during exptl. collagen-induced arthritis.

RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L7 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN
- AN 2001:597331 CAPLUS
- DN 136:288829
- TI GW274150 is a potent, long-acting, highly-selective inhibitor of inducible nitric oxide synthase (NOS-2) with therapeutic potential in post-operative ileus
- AU Alderton, W.; Angell, A.; Clayton, N.; Craig, C.; Dawson, J.; Frend, A.; McGill, J.; Mangel, A.; Moncada, S.; Rees, D.; Russell, L.; Schwartz, S.; Waslidge, N.; Knowles, R.
- CS Glaxo Wellcome R and D, Stevenage, SG1 2NY, UK
- SO Portland Press Proceedings (2000), 16(Biology of Nitric Oxide, Part 7), 22 CODEN: POPPEF; ISSN: 0966-4068
- PB Portland Press Ltd.
- DT Journal
- LA English
- AB GW274150 [(S)-2-amino-7-acetamidino-5-thioheptanoic acid] is a novel  $\alpha$ -amino acid that potently inhibited human inducible nitric oxide synthase (iNOS) with selectivity vs. human eNOS and nNOS. In studies with purified NOS isoforms, GW274150 was a time-dependent, arginine-site inhibitor of iNOS and a rapidly-reversible inhibitor of eNOS. This novel compound had a long pharmacokinetic half-life and high oral bioavailability in several species. The selectivity of GW274150 against the constitutive NOS isoforms was maintained in vivo, the compound producing no significant effect on conscious mouse blood pressure dosed at 100 mg/kg and on rat brain plus nitrite levels at 50 mg/kg. Post-operative ileus is one potential therapeutic application for GW274150. In a rat model of post-operative ileus, GW274150 was maximally effective at 1-5 mg/kg, yielding a 67% reversal of delayed GI transit. The compound was also effective in a rat model of acute inflammatory pain (adjuvant).
- RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L7 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN
- AN 2000:209102 CAPLUS
- DN 133:12344
- TI Inhibition of inducible nitric oxide synthase by acetamidine derivatives of hetero-substituted lysine and homolysine
- AU Young, Robert J.; Beams, Richard M.; Carter, Keith; Clark, Helen A. R.; Coe, Diane M.; Chambers, C. Lynn; Davies, P. Ifeyinwa; Dawson, John; Drysdale, Martin J.; Franzman, Karl W.; French, Colin; Hodgson, Simon T.; Hodson, Harold F.; Kleanthous, Savvas; Rider, Peter; Sanders, Daniela; Sawyer, David A.; Scott, Keith J.; Shearer, Barry G.; Stocker, Richard; Smith, Steven; Tackley, Miriam C.; Knowles, Richard G.
- CS Glaxo Wellcome Research and Development, Stevenage, SG1 2NY, UK

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Bioorganic & Medicinal Chemistry Letters (2000), 10(6), 597-600
SO
     CODEN: BMCLE8; ISSN: 0960-894X
PΒ
     Elsevier Science Ltd.
DT
     Journal
LA
     English
AB
     The synthesis and in vitro evaluation of the acetamidine derivs. of
     hetero-substituted lysine and homolysine analogs have identified potent
     inhibitors of human nitric oxide synthase enzymes, including examples with
     marked selectivity for the inducible isoform.
             THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 40
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
    ANSWER 12 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN
L7
AΝ
     1999:753054 CAPLUS
DN
     131:346497
     Use of nitric oxide synthase inhibitors in the manufacture of a medicament
ΤI
     for the prophylaxis or treatment of bacterial infection
IN
     Alderton, Wendy Karen; Knowles, Richard Graham; Ladel, Christoph Hubertus
PA
     Glaxo Group Limited, UK
SO
     PCT Int. Appl., 34 pp.
     CODEN: PIXXD2
DT
     Patent
    English
LA
FAN.CNT 1
                      KIND DATE APPLICATION NO. DATE
    PATENT NO.
                        A1 19991125 WO 1999-EP3265 19990512
                       ----
PΙ
    WO 9959566
        W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
            DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
            JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
            MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
            TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
            MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
            ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
            CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                        A1 19991206
    AU 9940406
                                        AU 1999-40406
                                                                 19990512
PRAI GB 1998-10299
                         Α
                              19980515
                             19990512
    WO 1999-EP3265
                         W
os
    MARPAT 131:346497
    Inducible nitric oxide synthase inhibitors are used for the manufacture of a
    medicament for the prophylaxis or treatment of a bacterial infection,
     where the inhibitor of inducible nitric oxide synthase is e.g.
     HN:C(R1)NHR2 [R1 = C1-6 straight or branched chain alkyl; Q = QC(NH2)CO2H
     (Q = alkylene, alkenylene, etc.), ring-substituted benzyl] or a
    pharmaceutically acceptable salt, ester, or amide thereof.
RE.CNT 7
             THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
    ANSWER 13 OF 13 CAPLUS COPYRIGHT 2005 ACS on STN
1.7
     1998:490618 CAPLUS
AN
DN
     129:122862
TΤ
     Preparation of S-[2-(1-iminoethylamino)ethyl]homocysteine as nitric oxide
     synthase inhibitor
     Beams, Richard Mansfield; Drysdale, Martin James; Franzman, Karl Witold;
IN
     Frend, Anthony Joseph; Hodson, Harold Francis; Knowles, Richard Graham;
     Rees, Daryl David; Sawyer, David Alan
     Glaxo Group Ltd., UK; Beams, Richard Mansfield; Drysdale, Martin James;
PΑ
     Franzman, Karl Witold; Frend, Anthony Joseph; Hodson, Harold Francis;
     Knowles, Richard Graham; Rees, Daryl David; Sawyer, David Alan
     PCT Int. Appl., 29 pp.
SO
    CODEN: PIXXD2
DT
     Patent
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English

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		31219				B1 B1		2002											
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	US	1999-3	341:	220		A1		1999	0824										
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AB	HN: CMeNHCH2CH2SCH2CH2CH(NH2)CO2H (I) was prepared for use as a sel inhibitor of nitric oxide synthase (NOS). Thus, (S)-I was prepare																		
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AB HN:CMeNHCH2CH2SCH2CH(NH2)CO2H (I) was prepared for use as a selective inhibitor of nitric oxide synthase (NOS). Thus, (S)-I was prepared by treatment of L-homocystine with Na in liquid NH3 and then N-benzyloxycarbonylethanolamine tosylate, cleavage of the benzyloxycarbonyl protecting group with HBr in AcOH, and reaction with Et acetimidate hydrochloride. (S)-I was assayed for inhibition of inducible and endothelial NOS (IC50 = 0.73 and 43 μM, resp.).

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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NEWS 9 JUN 02
                The first reclassification of IPC codes now complete in
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                CA/CAplus enhanced with more pre-1907 records
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=> s 210354-22-6/rn

16 210354-22-6

1 210354-22-6D

L1 16 210354-22-6/RN

(210354-22-6 (NOTL) 210354-22-6D)
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=> d 1-16 bib abs hitstr

- L1 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 2006:315097 CAPLUS
- DN 145:296
- TI Design, synthesis, and evaluation of new type of L-amino acids containing pyridine moiety as nitric oxide synthase inhibitor
- AU Ijuin, Ryosuke; Umezawa, Naoki; Higuchi, Tsunehiko
- CS Graduate School of Pharmaceutical Sciences, Nagoya City University, Nagoya, 467-8603, Japan
- SO Bioorganic & Medicinal Chemistry (2006), 14(10), 3563-3570 CODEN: BMECEP; ISSN: 0968-0896
- PB Elsevier B.V.
- DT Journal
- LA English

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2 HCl

AB New amino acids were designed and synthesized as candidate inhibitors of human nitric oxide synthase (NOS). The 2-aminopyridine-containing L-amino acids I had potent inhibitory activity toward all of the human NOS isoenzymes. A computational docking study was carried out to investigate the mechanism of the inhibitory effect.

IT 210354-22-6, GW 274150 RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pyridyl amino acids as nitric oxide synthase inhibitors)

RN 210354-22-6 CAPLUS

CN L-Homocysteine, S-[2-[(1-iminoethyl)amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L1 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 2006:56531 CAPLUS
- DN 145:40027
- TI Role of inducible nitric oxide synthase in the reduced responsiveness of the myocardium to catecholamines in a hyperdynamic, murine model of septic shock
- AU Barth, Eberhard; Radermacher, Peter; Thiemermann, Christoph; Weber, Sandra; Georgieff, Michael; Albuszies, Gerd
- CS Sektion Anaesthesiologische Pathophysiologie und Verfahrensentwicklung, Universitaetsklinikum, Ulm, Germany
- SO Critical Care Medicine (2006), 34(2), 307-313 CODEN: CCMDC7; ISSN: 0090-3493
- PB Lippincott Williams & Wilkins
- DT Journal
- LA English
- AB Objectives: Excess nitric oxide production is a key mediator of hypotension and catecholamine-resistance in septic shock. Although nitric oxide synthase blockade has been shown to restore hemodynamics, conflicting results on myocardial function were reported. Inducible nitric oxide synthase (iNOS) knockout (iNOS-/-) mice showed improved heart function, but these results were obtained during hypodynamic shock characterized by reduced cardiac output. Therefore, we investigated heart function and

catecholamine responsiveness in a clin. relevant, murine model of cecal ligation and puncture (CLP)-induced septic shock. Design: Prospective, controlled, randomized animal study. Setting: University animal research laboratory Subjects: Male C57Bl/6 wild-type and iNOS-/- mice. Interventions: Fifteen hours after CLP, three groups of mice (wild-type controls, n = 9; iNOS-/-, n = 12; and wild-type mice receiving 5 mg·kg-1 i.p. of the selective iNOS inhibitor GW274150 immediately after CLP, n = 8) were anesthetized, mech. ventilated, and instrumented (central venous and left ventricular pressure-conductance catheter). Measurements were recorded 18, 21, and 24 h post-CLP. Hydroxyethylstarch and norepinephrine were infused to achieve normotensive and hyperdynamic hemodynamics. Measurements and main results: There was no intergroup difference in mean arterial pressure, stroke volume, and left ventricular ejection fraction. Norepinephrine doses required to achieve the hemodynamic targets were lower in GW274150 (p < .001 vs. controls) and even further reduced in iNOS-/- mice (p < .001 vs. controls, p < .001 vs. GW274150). In the control group, the higher norepinephrine doses resulted in significantly higher heart rates and consequently cardiac output, maximal contraction, and relaxation than in the GW274150 and iNOS-/- animals. Left ventricular end-diastolic volume was also significantly higher in the controls than in the GW274150 and iNOS-/- mice, whereas left ventricular end-diastolic pressure did not differ. Conclusions: Our results confirm septic shock-related impaired left ventricular function. Genetic iNOS deletion and pharmacol. iNOS blockade enhanced cardiac norepinephrine responsiveness due to improved systolic function. In contrast, iNOS inhibition seemed to be affiliated with compromised left ventricular relaxation.

IT 210354-22-6, GW274150

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(inducible nitric oxide synthase inhibitor GW274150 enhanced myocardium responsiveness to catecholamine by improving systolic function and thus maintained left ventricular function in hyperdynamic murine model of septic shock)

RN 210354-22-6 CAPLUS

CN L-Homocysteine, S-[2-[(1-iminoethyl)amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2006:35943 CAPLUS

DN 145:20904

TI GW274150, a novel and highly selective inhibitor of the inducible isoform of nitric oxide synthase (iNOS), shows analgesic effects in rat models of inflammatory and neuropathic pain

AU De Alba, Jorge; Clayton, Nick M.; Collins, Sue D.; Colthup, Philip; Chessell, Iain; Knowles, Richard G.

CS Department of Respiratory Pharmacology, RI CEDD GlaxoSmithKline Research and Development, Medicines Research Centre, Hertfordshire, SG1 2NY, UK

SO Pain (2006), 120(1-2), 170-181 CODEN: PAINDB; ISSN: 0304-3959

PB Elsevier Ltd.

DT Journal

LA English

Nitric oxide (NO), synthesized by different isoforms of nitric oxide AB synthase (NOS), has been linked with the development and maintenance of nociception. We studied the role of the inducible isoform, iNOS, in two different rat pain models with an inflammatory component. iNOS was immunohistochem. detected locally in the paw 6 h after Freund's Complete Adjuvant (FCA) injection, showing a plateau at 24-72 h and falling slowly in the following weeks. This correlated with the late phase of the hypersensitivity to pain revealed in the behavioral tests. A highly selective iNOS inhibitor GW274150 (1-30 mg/kg orally, 24 h after FCA) suppressed the accumulation of nitrite in the inflamed paw indicating substantial iNOS inhibition. At the same time it partially reversed FCA-induced hypersensitivity to pain and edema in a dose-dependent manner. After Chronic Constriction Injury (CCI) surgery to the sciatic nerve, iNOS presence was only detected locally in the region of the nerve (inflammatory cells). GW274150 (3-30 mg/kg orally, 21 days after surgery) also reversed significantly the CCI-associated hypersensitivity to pain. No iNOS was detectable in dorsal root ganglia, spinal cord or brain in either model. This study demonstrates a role for peripherally-expressed iNOS in pain conditions with an inflammatory component and the potential value of iNOS inhibitors in such conditions.

IT 210354-22-6, GW274150

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(iNOS inhibitor GW274150 suppressed nitrite accumulation in inflamed paw, partially reversed FCA-induced hypersensitivity to pain and edema in dose-dependent manner, significantly reversed CCI-associated hypersensitivity to pain in rat model)

RN 210354-22-6 CAPLUS

CN L-Homocysteine, S-[2-[(1-iminoethyl)amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 73 THERE ARE 73 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:465475 CAPLUS

DN 143:71325

TI GW274150 and GW273629 are potent and highly selective inhibitors of inducible nitric oxide synthase in vitro and in vivo

AU Alderton, Wendy K.; Angell, Anthony D. R.; Craig, Caroline; Dawson, John; Garvey, Edward; Moncada, Salvador; Monkhouse, Jayne; Rees, Daryl; Russell, Linda J.; Russell, Rachel J.; Schwartz, Sheila; Waslidge, Neil; Knowles, Richard G.

CS Medicines Research Centre, Respiratory & Inflammation Centre of Excellence for Drug Discovery, GlaxoSmithKline Research, Stevenage, SG1 2NY, UK

SO British Journal of Pharmacology (2005), 145(3), 301-312 CODEN: BJPCBM; ISSN: 0007-1188

PB Nature Publishing Group

DT Journal

LA English

AB GW274150 ([2-[(1-iminoethyl) amino]ethyl]-L-homocysteine) and GW273629 (3-[[2-[(1-iminoethyl)amino]ethyl]sulfonyl]-L-alanine) are potent, time-dependent, highly selective inhibitors of human inducible nitric oxide synthase (iNOS) vs. endothelial NOS (eNOS) (>100-fold) or neuronal NOS (nNOS) (>80-fold). GW274150 and GW273629 are arginine competitive,

NADPH-dependent inhibitors of human iNOS with steady state Kd values of <40 and <90 nM, resp. GW274150 and GW273629 inhibited intracellular iNOS in J774 cells in a time-dependent manner, reaching IC50 values of  $0.2\pm0.04$  and  $1.3\pm0.16$   $\mu\text{M}$ , resp. They were also acutely selective in intact rat tissues: GW274150 was >260-fold and 219-fold selective for iNOS against eNOS and nNOS, resp., while GW273629 was >150-fold and 365-fold selective for iNOS against eNOS and nNOS, resp. The pharmacokinetic profile of GW274150 was biphasic in healthy rats and mice with a terminal half-life of .apprx.6 h. That of GW273629 was also biphasic in rats, producing a terminal half-life of .apprx.3 h. In mice however, elimination of GW273629 appeared monophasic and more rapid (.apprx.10 min). Both compds. show a high oral bioavailability (>90%) in rats and mice. GW274150 was effective in inhibiting LPS-induced plasma NOx levels in mice with an ED50 of  $3.2\pm0.7$  mg kg-1 after 14 h i.p. and 3.8±1.5 mg kg-1 after 14 h when administered orally. GW274150 was effective in inhibiting LPS-induced plasma NOx levels in mice with an ED50 of  $3.2\pm0.7$  mg kg-1 after 14 h i.p. and  $3.8\pm1.5$  mg kg-1 after 14 h when administered orally. GW273629 showed shorter-lived effects on plasma NOx and an ED50 of  $9\pm2$  mg kg-1 after 2 h when administered i.p. The effects of GW274150 and GW273629 in vivo were consistent with high selectivity for iNOS, as these inhibitors were of low potency against nNOS in the rat cerebellum and did not cause significant effects on blood pressure in instrumented mice.

IT 210354-22-6, GW274150

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (GW274150 and GW273629 are potent and highly selective inhibitors of inducible nitric oxide synthase in vitro and in vivo)

RN 210354-22-6 CAPLUS

CN L-Homocysteine, S-[2-[(1-iminoethyl)amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:48432 CAPLUS

DN 142:169464

TI Beneficial effects of GW274150 treatment on the development of experimental colitis induced by dinitrobenzene sulfonic acid

AU Di Paola, Rosanna; Mazzon, Emanuela; Patel, Nimesh S. A.; Genovese, Tiziana; Muia, Carmelo; Thiemermann, Christoph; De Sarro, Angelina; Cuzzocrea, Salvatore

CS Department of Clinical and Experimental Medicine and Pharmacology, School of Medicine, Policlinico Universitario, University of Messina Torre Biologica, Messina, 98123, Italy

SO European Journal of Pharmacology (2005), 507(1-3), 281-289 CODEN: EJPHAZ; ISSN: 0014-2999

PB Elsevier B.V.

DT Journal

LA English

AB Inflammatory bowel disease is associated with inducible nitric oxide synthase (iNOS) expression, oxidative and nitrosative stress, and leukocyte infiltration in the colon. Here, the authors investigate the effects of the selective iNOS-inhibitor (S)-2-amino-(1-iminoethylamino)-5-thiopentanoic acid (GW274150) on the development of exptl. colitis induced

by dinitrobenzene sulfonic acid. When compared to dinitrobenzene sulfonic acid-treated mice, GW274150 (5 mg/kg i.p.)-treated mice subjected to dinitrobenzene sulfonic ACID-induced colitis experienced a significantly lower rate of the extent and severity of the histol. signs of colon injury. Dinitrobenzene sulfonic acid-treated mice experienced hemorrhagic diarrhea and weight loss. At 4 days after the administration of dinitrobenzene sulfonic acid, the mucosa of the colon exhibited large areas of necrosis. Immunohistochem. for nitrotyrosine and poly (ADP-ribose) (PAR) showed an intense staining in the inflamed colon. Treatment of dinitrobenzene sulfonic acid-treated mice with GW274150 significantly reduced the degree of hemorrhagic diarrhea and weight loss caused by administration of dinitrobenzene sulfonic acid. GW274150 also caused a substantial reduction of (i) the degree of colon injury, (ii) the rise in myeloperoxidase (MPO) activity (mucosa), (iii) the increase in staining (immunohistochem.) for nitrotyrosine, as well as (iv) PARP activation caused by dinitrobenzene sulfonic acid in the colon. Thus, GW274150 treatment reduced the degree of colitis caused by dinitrobenzene sulfonic acid. The authors propose that selective inhibition of iNOS activity with GW274150 may be useful in the treatment of inflammatory bowel disease.

IT 210354-22-6, GW274150

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(beneficial effects of GW274150 treatment on development of exptl. colitis induced by dinitrobenzene sulfonic acid)

RN 210354-22-6 CAPLUS

CN L-Homocysteine, S-[2-[(1-iminoethyl)amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

# RE.CNT 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:346162 CAPLUS

DN 140:399632

TI Effects of GW274150, a novel and selective inhibitor of iNOS activity, in acute lung inflammation

AU Dugo, Laura; Marzocco, Stefania; Mazzon, Emanuela; Di Paola, Rosanna; Genovese, Tiziana; Caputi, Achille P.; Cuzzocrea, Salvatore

CS Department Clinical and Experimental Medicine and Pharmacology, University of Messina, Messina, 98100, Italy

SO British Journal of Pharmacology (2004), 141(6), 979-987 CODEN: BJPCBM; ISSN: 0007-1188

PB Nature Publishing Group

DT Journal

LA English

The aim of this study was to investigate the effect of GW274150, a novel, potent and selective inhibitor of inducible nitric oxide synthase (iNOS) activity in a model of lung injury induced by carrageenan administration in the rats. Injection of carrageenan into the pleural cavity of rats elicited an acute inflammatory response characterized by: fluid accumulation in the pleural cavity which contained a large number of polymorphonuclear cells (PMNs) as well as an infiltration of PMNs in lung tissues and subsequent lipid peroxidn., and increased production of nitrite/nitrate (NOx), tumor necrosis factor  $\alpha$  (TNF- $\alpha$ ) and interleukin-1 $\beta$  (IL-1 $\beta$ ). All parameters of inflammation were

attenuated in a dose-dependent manner by GW274150 (2.5, 5 and 10 mg kg-1 injected i.p. 5 min before carrageenan). Carrageenan induced an upregulation of the intracellular adhesion mols.-1 (ICAM-1), as well as nitrotyrosine and poly (ADP-ribose) (PAR) as determined by immunohistochem. anal. of lung tissues. The degree of staining for the ICAM-1, nitrotyrosine and PAR was reduced by GW274150. These results clearly confirm that NO from iNOS plays a role in the development of the inflammatory response by altering key components of the inflammatory cascade. GW274150 may offer a novel therapeutic approach for the management of various inflammatory diseases where NO and related radicals have been postulated to play a role.

IT 210354-22-6, GW274150

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(effects of GW274150, novel and selective inhibitor of iNOS activity, in acute lung inflammation)

RN 210354-22-6 CAPLUS

CN L-Homocysteine, S-[2-[(1-iminoethyl)amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

# RE.CNT 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:2680 CAPLUS

DN 140:65201

TI (2S)-2-Amino-4-{[2-(ethanimidoylamino)ethyl]thio}butanoic acid nitric oxide synthase inhibitor in stabilized pharmaceutical dosage forms

IN Broughton, Stuart James; Gharu, Rajinder Kumar; Leow, Mark Yuon Tuck; Neale, Philip John

PA SB Pharmco Puerto Rico Inc., P. R.

SO PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DT Patent

LA English

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GB 2002-14147																		
	PAT WO	PATENT: WO 2004 W:  RW:  AU 2003 EP 1513 R:  JP 2005 US 2005	PATENT NO WO 20040002 W: AE, CO, GM, LS, PG, TT, RW: GH, KG, FI, BF, AU 20032789 EP 1513511 R: AT, IE, JP 20055330 US 20052222	PATENT NO.  WO 2004000296  W: AE, AG,  CO, CR,  GM, HR,  LS, LT,  PG, PH,  TT, TZ,  RW: GH, GM,  KG, KZ,  FI, FR,  BF, BJ,  AU 2003278958  EP 1513511  R: AT, BE,  IE, SI,  JP 2005533075  US 2005222260	PATENT NO.  WO 2004000296  W: AE, AG, AL, CO, CR, CU, GM, HR, HU, LS, LT, LU, PG, PH, PL, TT, TZ, UA, RW: GH, GM, KE, KG, KZ, MD, FI, FR, GB, BF, BJ, CF, AU 2003278958 EP 1513511 R: AT, BE, CH, IE, SI, LT, JP 2005533075 US 2005222260	PATENT NO. KINI  WO 2004000296 A1  W: AE, AG, AL, AM, CO, CR, CU, CZ, GM, HR, HU, ID, LS, LT, LU, LV, PG, PH, PL, PT, TT, TZ, UA, UG, RW: GH, GM, KE, LS, KG, KZ, MD, RU, FI, FR, GB, GR, BF, BJ, CF, CG, AU 2003278958 A1  R: AT, BE, CH, DE, IE, SI, LT, LV, JP 2005533075 T2 US 2005222260 A1	PATENT NO. KIND	PATENT NO. 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KIND DATE APPL  WO 2004000296 A1 20031231 WO 2  W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, GM, HR, HU, ID, IL, IN, IS, JP, KE, LS, LT, LU, LV, MA, MD, MG, MK, MN, PG, PH, PL, PT, RO, RU, SC, SD, SE, TT, TZ, UA, UG, US, UZ, VC, VN, YU, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, FI, FR, GB, GR, HU, IE, IT, LU, MC, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, AU 2003278958 A1 20040106 AU 2  EP 1513511 A1 20050316 EP 2  R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, SI, LT, LV, FI, RO, MK, CY, AL, JP 2005533075 T2 20051104 JP 2  US 2005222260 A1 20051006 US 2	PATENT NO. KIND DATE APPLICAT.  WO 2004000296 A1 20031231 WO 2003-1 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, AU 2003278958 A1 20040106 AU 2003-1 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, JP 2005533075 T2 20051104 JP 2004-1 US 2005222260 A1 20051006 US 2004-1	PATENT NO. 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WO 2004000296 A1 20031231 WO 2003-EP6465  W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, AU 2003278958 A1 20040106 AU 2003-278958  EP 1513511 A1 20050316 EP 2003-740281  R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, JP 2005533075 T2 20051104 JP 2004-514780  US 2005222260 A1 20051006 US 2004-517801	PATENT NO. KIND DATE APPLICATION NO.  WO 2004000296 A1 20031231 WO 2003-EP6465  W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, AU 2003278958 A1 20040106 AU 2003-278958  EP 1513511 A1 20050316 EP 2003-740281  R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, JP 2005533075 T2 20051104 JP 2004-514780  US 2005222260 A1 20051006 US 2004-517801	PATENT NO. KIND DATE APPLICATION NO. DATE  WO 2004000296 A1 20031231 WO 2003-EP6465 20  W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, AU 2003278958 A1 20040106 AU 2003-278958 20  EP 1513511 A1 20050316 EP 2003-740281 20  R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, JP 2005533075 T2 20051104 JP 2004-514780 20  US 2005222260 A1 20051006 US 2004-517801	PATENT NO. KIND DATE APPLICATION NO. DATE  WO 2004000296 A1 20031231 WO 2003-EP6465 200306  W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, AU 2003278958 A1 20040106 AU 2003-278958 200306 EP 1513511 A1 20050316 EP 2003-740281 200306 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK JP 2005533075 T2 20051104 JP 2004-514780 200306	

WO 2003-EP6465 W 20030619

- AB Pharmaceutical compns. comprising (2S)-MeC(:NH)NHCH2CH2SCH2CH2CH(NH2)CO2H (I) a pharmaceutically acceptable bulking agent and one or more antioxidants or chelating agents are described. A direct compression formula for tablets contained I, EDTA, Avical PH101, silica, and Mg stearate.
- IT 210354-22-6

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 ((2S)-2-Amino-4-{[2-(ethanimidoylamino)ethyl]thio}butanoic acid nitric
 oxide synthase inhibitor in stabilized pharmaceutical dosage forms)

RN 210354-22-6 CAPLUS

CN L-Homocysteine, S-[2-[(1-iminoethyl)amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:947089 CAPLUS

DN 140:314741

TI GW274150 inhibits nitric oxide production by primary cultures of rat proximal tubular cells

AU Chatterjee, Prabal K.; Kvale, Espen O.; Patel, Nimesh S. A.; Thiemermann, Christoph

CS Department of Experimental Medicine, Nephrology & Critical Care, William Harvey Research Institute, Queen Mary - University of London, UK

SO Medical Science Monitor (2003), 9(10), BR357-BR362 CODEN: MSMOFR; ISSN: 1234-1010

PB International Scientific Literature, Inc.

DT Journal

LA English

Background: Production of nitric oxide (NO) subsequent to expression of inducible NO synthase (iNOS) contributes to the development of ischemic renal injury and inflammation. Here the authors investigate the effects of GW274150, a potent, long-acting and highly selective inhibitor of iNOS activity, on NO production by primary cultures of rat proximal tubular cells (PTC). Material/Methods: Pure populations of PTC were isolated from the cortex of kidneys obtained from male Wistar rats using a combination of collagenase digestion, sieving and Percoll centrifugation. Confluent PTC cultures were incubated for 1-24 h with MEM, interferon-γ (IFN-γ, 100 iu/mL), bacterial lipopolysaccharide (LPS, 10 μg/mL)

in combination after which NO production was determined PTC were also incubated

with IFN- $\gamma$  (100 iu/mL) and LPS (10 µg/mL) and increasing concns. of GW274150 or L-N6-(1-iminoethyl)lysine (L-NIL) (10 nM - 1 mM) for 24 h after which nitrite levels in the incubation medium were measured. Results: IFN- $\gamma$  and LPS in combination produced a significant, time-dependent increase in NO production Both GW274150 and L-NIL produced a significant and concentration-dependent inhibition of NO production However, GW274150 was markedly more potent (EC50 .apprx. 100 nM) than L-NIL (EC50 .apprx. 10 µM). Conclusions: GW274150 inhibits NO production by primary cultures of PTCs and may therefore be useful in conditions associated with nitrosative stress of the kidney.

IT 210354-22-6, GW274150 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(GW274150 inhibits nitric oxide production by primary cultures of rat proximal tubular cells incubated with interferon- $\gamma$  and LPS)

RN 210354-22-6 CAPLUS

L-Homocysteine, S-[2-[(1-iminoethyl)amino]ethyl]- (9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

#### THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 37 ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 9 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN L1

AN 2003:300915 CAPLUS

DN 138:302642

Inducible nitric oxide synthase inhibitors as vaccine adjuvants ΤI

Thomsen, Lindy Louise IN

Glaxo Group Limited, UK PΑ

PCT Int. Appl., 33 pp. SO

CODEN: PIXXD2

DT Patent

English LA

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		WO 2003030935				A3		2003	0814										
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				CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
				GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,
				LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,
				PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,	TZ,
				UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW						
			RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,
				KG,	KZ,	MD,	RU,	TJ,	TM.	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
				FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	SK,	TR,	BF,	ВJ,	CF,
									GQ,										
		CA	A 2462582						CA 2002-2462582										
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			R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
				IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	SK		
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		WO	2002	-GB4.	365		W	W 20020926											

MARPAT 138:302642 The present invention relates to the use of inducible nitric oxide AB synthase (iNOS) inhibitors as vaccine adjuvants, and in a preferred aspect of the invention they are used for adjuvanting nucleic acid (DNA) vaccines. The iNOS inhibitors preferably provide for an increase in antigen-specific CD4-pos. and/or CD8-pos. T cells. These compds. preferably induce a Th1-biased immune response as measured by increased formation of Th1 cytokines, in particular interferon  $\gamma$ . The present invention further provides pharmaceutical compns. comprising an antigen and the inhibitor.

210354-22-6, GW 274150 ΙT

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(inducible nitric oxide synthase inhibitors as vaccine adjuvants)

RN 210354-22-6 CAPLUS

CN L-Homocysteine, S-[2-[(1-iminoethyl)amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Me 
$$\stackrel{\text{NH}}{\underset{\text{H}}{\bigvee}}$$
 S  $\stackrel{\text{CO}_2\text{H}}{\underset{\text{NH}_2}{\bigvee}}$ 

L1 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:289025 CAPLUS

DN 139:301665

TI GW274150, a potent and highly selective inhibitor of iNOS, reduces experimental renal ischemia/reperfusion injury

AU Chatterjee, Prabal K.; Patel, Nimesh S. A.; Sivarajah, Ahila; Kvale, Espen O.; Dugo, Laura; Cuzzocrea, Salvatore; Brown, Paul A. J.; Stewart, Keith N.; Mota-Filipe, Helder; Britti, Domenico; Yaqoob, Muhammad M.; Thiemermann, Christoph

CS Department of Experimental Medicine and Nephrology, The William Harvey Research Institute, Queen Mary, University of London, London, UK

SO Kidney International (2003), 63(3), 853-865 CODEN: KDYIA5; ISSN: 0085-2538

PB Blackwell Publishing, Inc.

DT Journal

LA English

AR Generation of nitric oxide (NO) by inducible nitric oxide synthase (iNOS) may contribute to renal ischemia/reperfusion (I/R) injury. The aim of this study was to investigate the effects of GW274150, a novel, highly selective, potent and long-acting inhibitor of iNOS activity in rat and mouse models of renal I/R. Rats were administered GW274150 (5 mg/kg i.v. bolus administered 30 min prior to I/R) and subjected to bilateral renal ischemia (45 min) followed by reperfusion (6 h). Serum and urinary indicators of renal dysfunction, tubular and reperfusion injury were measured, specifically, serum urea, creatinine, aspartate aminotransferase (AST) and N-acetyl- $\beta$ -D-glucosaminidase (NAG) enzymuria. In addition, renal sections were used for histol. scoring of renal injury and for immunol. evidence of nitrotyrosine formation and poly [ADP (ADP)-ribose] (PAR). Nitrate levels were measured in rat plasma using the Griess assay. Mice (wild-type, administered 5 mg/kg GW274150, and iNOS-/-) were subjected to bilateral renal ischemia (30 min) followed by reperfusion (24 h) after which renal dysfunction (serum urea, creatinine), renal myeloperoxidase (MPO) activity and malondialdehyde (MDA) levels were measured. GW274150, administered prior to I/R, significantly reduced serum urea, serum creatinine, AST, and NAG indicating reduction of renal dysfunction and injury caused by I/R. GW274150 reduced histol. evidence of tubular injury and markedly reduced immunohistochem. evidence of nitrotyrosine and PAR formation, indicating reduced peroxynitrite formation and poly (ADP-ribose) polymerase (PARP) activation, resp. GW274150 abolished the rise in the plasma levels of nitrate (indicating reduced NO production). GW274150 also reduced the renal dysfunction in wild-type mice to levels similar to that observed in iNOS-/- mice subjected to I/R. Renal MPO activity and MDA levels were significantly reduced in wild-type mice administered GW274150 and iNOS-/- mice subjected to renal I/R, indicating reduced polymorphonuclear leukocyte (PMN) infiltration and lipid peroxidn. These results suggest that (1) an enhanced formation of NO by iNOS contributes to the pathophysiol. of renal I/R injury and (2) GW274150 reduces I/R injury of the kidney. We propose that selective inhibitors of iNOS activity may be useful against renal dysfunction and injury associated with I/R of the kidney.

210354-22-6, GW274150

IT

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU
(Therapeutic use); BIOL (Biological study); USES (Uses)
 (GW274150, selective inhibitor of iNOS, reduces exptl. renal
 ischemia/reperfusion injury)

RN 210354-22-6 CAPLUS

CN L-Homocysteine, S-[2-[(1-iminoethyl)amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 67 THERE ARE 67 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:51504 CAPLUS

DN 139:159864

TI A novel, potent and selective inhibitor of the activity of inducible nitric oxide synthase (GW274150) reduces the organ injury in hemorrhagic shock

AU McDonald, M. C.; Izumi, M.; Cuzzocrea, S.; Thiemermann, C.

CS The William Harvey Research Institute, St. Bartholomew's and The Royal London School of Medicine and Dentistry, London, EC1M6BQ, UK

SO Journal of Physiology and Pharmacology (2002), 53(4, Pt. 1), 555-569 CODEN: JPHPEI; ISSN: 0867-5910

PB Polish Physiological Society

DT Journal

LA English

An enhanced formation of nitric oxide (NO) by the inducible NO synthase AB (iNOS) may contribute to the pathophysiol. of hemorrhagic shock. This study investigates the effect of a novel, potent and selective inhibitor of iNOS activity (GW274150) on the circulatory failure and the organ injury and dysfunction associated with hemorrhagic shock in the anesthetized rat. Hemorrhage (sufficient to lower mean arterial blood pressure to 45 mmHg for 90 min) and subsequent resuscitation with shed blood resulted (within 4 h after resuscitation) in a delayed fall in blood pressure, renal and liver injury and dysfunction as well as the pancreatic injury. Pre-treatment of rats with GW274150 (5 mg/kg at 30 min prior to the onset of hemorrhage) attenuated the renal dysfunction as well as the liver and pancreatic injury caused by hemorrhage and resuscitation. Interestingly, GW274150 did not reduce the delayed fall in blood pressure associated with hemorrhagic shock. We propose that an enhanced formation of NO from iNOS contributes to the organ injury and dysfunction in hemorrhagic shock, and that highly selective inhibitors of iNOS activity, such as GW274150, may represent a novel therapeutic approach for the therapy of hemorrhagic shock.

IT 210354-22-6, GW274150

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(novel, potent and selective inhibitor of activity of inducible nitric oxide synthase (GW274150) reduces the organ injury in hemorrhagic shock)

RN 210354-22-6 CAPLUS

CN L-Homocysteine, S-[2-[(1-iminoethyl)amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

#### RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:804285 CAPLUS

DN 138:314136

TI Beneficial effects of GW274150, a novel, potent and selective inhibitor of iNOS activity, in a rodent model of collagen-induced arthritis

AU Cuzzocrea, Salvatore; Chatterjee, Prabal K.; Mazzon, Emanuela; McDonald, Michelle C.; Dugo, Laura; Di Paola, Rosanna; Serraino, Ivana; Britti, Domenico; Caputi, Achille P.; Thiemermann, Christoph

CS School of Medicine, Institute of Pharmacology, University of Messina, Policlinico Universitario, Gazzi, Messina, 98100, Italy

SO European Journal of Pharmacology (2002), 453(1), 119-129 CODEN: EJPHAZ; ISSN: 0014-2999

PB Elsevier Science B.V.

DT Journal

LA English

The aim of this study was to investigate the role of inducible nitric AB oxide synthase (iNOS) on the modulation of the inflammatory response in mice subjected to collagen-induced arthritis. Collagen-induced arthritis was induced in wild-type mice (iNOS-WT) treated with GW274150, a novel, potent and selective inhibitor of iNOS activity, and in mice lacking the gene for iNOS (iNOS knock-out', iNOS-KO), by an intradermal injection of 100 µl of emulsion containing 100 µg of bovine type II collagen and complete Freund's adjuvant at the base of the tail. After 21 days, a second injection of type II collagen in complete Freund's adjuvant was administered. iNOS-WT mice developed erosive hind paw arthritis when immunized with type II collagen in complete Freund's adjuvant. Over a 35-day period, macroscopic clin. evidence of collagen-induced arthritis first appeared as periarticular erythema and edema in the hind paws. By day 28, the incidence of collagen-induced arthritis was 100% in type II collagen-challenged iNOS-WT mice and the severity of collagen-induced arthritis progressed with radiog. evaluation revealing resorption of bone. Histopathol. of collagen-induced arthritis mice demonstrated erosion of the cartilage at the joint margins. iNOS-WT mice treated with GW274150 (5 mg/kg, i.p. daily) starting at the onset of arthritis (day 23), and iNOS-KO mice showed a delay of the development of the clin. signs at days 24-35 and an improvement of the histol. status in the knee and paw. Immunohistochem. anal. for nitrotyrosine and for poly(ADP-ribose) polymerase revealed pos. staining in inflamed joints from type II collagen-treated iNOS-WT mice. The degree of staining for nitrotyrosine and poly(ADP-ribose) polymerase were markedly reduced in tissue sections obtained from type II collagen-treated iNOS-WT mice, who had received GW274150 and from iNOS-KO mice. Furthermore, radiog. signs of protection against bone resorption were present in the joints of iNOS-WT mice treated with GW274150 as well as in the joint from iNOS-KO mice. This study provides the first evidence that GW274150, a novel, potent and selective inhibitor of iNOS activity, attenuates the degree of chronic inflammation and tissue damage associated with collagen-induced arthritis in mice. Furthermore, these results suggest that the induction of iNOS and NO production are essential for the up-regulation of the inflammatory response during exptl. collagen-induced arthritis.

IT 210354-22-6, GW274150
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
 (Biological study); USES (Uses)

(effects of GW274150 in a rodent model of collagen-induced arthritis)

RN 210354-22-6 CAPLUS

CN L-Homocysteine, S-[2-[(1-iminoethyl)amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

#### RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:597331 CAPLUS

DN 136:288829

TI GW274150 is a potent, long-acting, highly-selective inhibitor of inducible nitric oxide synthase (NOS-2) with therapeutic potential in post-operative ileus

AU Alderton, W.; Angell, A.; Clayton, N.; Craig, C.; Dawson, J.; Frend, A.; McGill, J.; Mangel, A.; Moncada, S.; Rees, D.; Russell, L.; Schwartz, S.; Waslidge, N.; Knowles, R.

CS Glaxo Wellcome R and D, Stevenage, SG1 2NY, UK

SO Portland Press Proceedings (2000), 16(Biology of Nitric Oxide, Part 7), 22 CODEN: POPPEF; ISSN: 0966-4068

PB Portland Press Ltd.

DT Journal

LA English

AB GW274150 [(S)-2-amino-7-acetamidino-5-thioheptanoic acid] is a novel  $\alpha$ -amino acid that potently inhibited human inducible nitric oxide synthase (iNOS) with selectivity vs. human eNOS and nNOS. In studies with purified NOS isoforms, GW274150 was a time-dependent, arginine-site inhibitor of iNOS and a rapidly-reversible inhibitor of eNOS. This novel compound had a long pharmacokinetic half-life and high oral bioavailability in several species. The selectivity of GW274150 against the constitutive NOS isoforms was maintained in vivo, the compound producing no significant effect on conscious mouse blood pressure dosed at 100 mg/kg and on rat brain plus nitrite levels at 50 mg/kg. Post-operative ileus is one potential therapeutic application for GW274150. In a rat model of post-operative ileus, GW274150 was maximally effective at 1-5 mg/kg, yielding a 67% reversal of delayed GI transit. The compound was also effective in a rat model of acute inflammatory pain (adjuvant).

IT 210354-22-6, GW 274150

RL: PAC (Pharmacological activity); PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (GW274150 is a potent, long-acting, highly-selective inhibitor of inducible nitric oxide synthase (NOS-2) with therapeutic potential in post-operative ileus)

RN 210354-22-6 CAPLUS

CN L-Homocysteine, S-[2-[(1-iminoethyl)amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

#### RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L1 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 2000:209102 CAPLUS
- DN 133:12344
- TI Inhibition of inducible nitric oxide synthase by acetamidine derivatives of hetero-substituted lysine and homolysine
- AU Young, Robert J.; Beams, Richard M.; Carter, Keith; Clark, Helen A. R.; Coe, Diane M.; Chambers, C. Lynn; Davies, P. Ifeyinwa; Dawson, John; Drysdale, Martin J.; Franzman, Karl W.; French, Colin; Hodgson, Simon T.; Hodson, Harold F.; Kleanthous, Savvas; Rider, Peter; Sanders, Daniela; Sawyer, David A.; Scott, Keith J.; Shearer, Barry G.; Stocker, Richard; Smith, Steven; Tackley, Miriam C.; Knowles, Richard G.
- CS Glaxo Wellcome Research and Development, Stevenage, SG1 2NY, UK
- SO Bioorganic & Medicinal Chemistry Letters (2000), 10(6), 597-600 CODEN: BMCLE8; ISSN: 0960-894X
- PB Elsevier Science Ltd.
- DT Journal
- LA English
- AB The synthesis and in vitro evaluation of the acetamidine derivs. of hetero-substituted lysine and homolysine analogs have identified potent inhibitors of human nitric oxide synthase enzymes, including examples with marked selectivity for the inducible isoform.
- IT 210354-22-6, GW 274150
  - RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
    - (inhibition of inducible nitric oxide synthase by acetamidine derivs.
    - of hetero-substituted lysine and homolysine)
- RN 210354-22-6 CAPLUS
- CN L-Homocysteine, S-[2-[(1-iminoethyl)amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

# RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L1 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
- AN 1999:753054 CAPLUS
- DN 131:346497
- TI Use of nitric oxide synthase inhibitors in the manufacture of a medicament for the prophylaxis or treatment of bacterial infection
- IN Alderton, Wendy Karen; Knowles, Richard Graham; Ladel, Christoph Hubertus
- PA Glaxo Group Limited, UK
- SO PCT Int. Appl., 34 pp. CODEN: PIXXD2
- DT Patent
- LA English
- FAN.CNT 1

	PATENT NO.					KINI	)	DATE		APPLICATION NO.						DATE			
							-		<del>-</del> -										
ΡI	WO 9959566				A1		19991125		1	WO 1999-EP3265					19990512				
		W:	ΑE,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	
			DE,	DK,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	
			JΡ,	KΕ,	KG,	KΡ,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	
			MN,	MW,	MX,	NO,	ΝZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	
			TM,	TR,	TT,	UA,	ŬĠ,	US,	UΖ,	VN,	YU,	ZA,	ZW,	AM,	AZ,	BY,	KG,	ΚZ,	

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MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
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             CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     AU 9940406
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                                19991206
                                                                   19990512
PRAI GB 1998-10299
                          Α
                                19980515
     WO 1999-EP3265
                          W
                                19990512
OS
     MARPAT 131:346497
     Inducible nitric oxide synthase inhibitors are used for the manufacture of a
AΒ
     medicament for the prophylaxis or treatment of a bacterial infection,
     where the inhibitor of inducible nitric oxide synthase is e.g.
     HN:C(R1)NHR2 [R1 = C1-6 straight or branched chain alkyl; Q = QC(NH2)CO2H
     (Q = alkylene, alkenylene, etc.), ring-substituted benzyl] or a
     pharmaceutically acceptable salt, ester, or amide thereof.
IT
     210354-22-6
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
        (nitric oxide synthase inhibitors for prophylaxis or treatment of
        bacterial infection)
     210354-22-6 CAPLUS
RN
     L-Homocysteine, S-[2-[(1-iminoethyl)amino]ethyl]- (9CI) (CA INDEX NAME)
CN
Absolute stereochemistry.
RE.CNT 7
              THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 16 OF 16 CAPLUS COPYRIGHT 2006 ACS on STN
L1
     1998:490618 CAPLUS
AN
DN
     129:122862
     Preparation of S-[2-(1-iminoethylamino)ethyl]homocysteine as nitric oxide
TI
     synthase inhibitor
     Beams, Richard Mansfield; Drysdale, Martin James; Franzman, Karl Witold;
IN
     Frend, Anthony Joseph; Hodson, Harold Francis; Knowles, Richard Graham;
     Rees, Daryl David; Sawyer, David Alan
     Glaxo Group Ltd., UK; Beams, Richard Mansfield; Drysdale, Martin James;
PA
     Franzman, Karl Witold; Frend, Anthony Joseph; Hodson, Harold Francis;
     Knowles, Richard Graham; Rees, Daryl David; Sawyer, David Alan
     PCT Int. Appl., 29 pp.
SO
     CODEN: PIXXD2
     Patent
DT
     English
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FAN.CNT 1
     PATENT NO.
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ΡI
     WO 9830537
                         A1
                                19980716
                                          WO 1998-EP96
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             DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG,
             KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
             NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
             UA, UG, US, UZ, VN, YU, ZW
         RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,
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CA 1998-2277877

AU 1998-62083

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	US	6620	848			B2	:	2003	0916										
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AB HN:CMeNHCH2CH2SCH2CH2(NH2)CO2H (I) was prepared for use as a selective inhibitor of nitric oxide synthase (NOS). Thus, (S)-I was prepared by treatment of L-homocystine with Na in liquid NH3 and then N-benzyloxycarbonylethanolamine tosylate, cleavage of the benzyloxycarbonyl protecting group with HBr in AcOH, and reaction with Et acetimidate hydrochloride. (S)-I was assayed for inhibition of inducible and endothelial NOS (IC50 = 0.73 and 43 μM, resp.).

IT 210354-22-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of [2-(1-iminoethylamino)ethyl]homocysteine as nitric oxide synthase inhibitor)

RN 210354-22-6 CAPLUS

CN L-Homocysteine, S-[2-[(1-iminoethyl)amino]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

---Logging off of STN---

Executing the logoff script...

#### => LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	92.10	92.31
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-12.00	-12.00

STN INTERNATIONAL LOGOFF AT 08:08:07 ON 19 SEP 2006